Moberly Area Community College
Common Syllabus

MTH042 Quantitative Reasoning Corequisite
Current Term

Instructor:
Office number:
Office hours:
Response Time: I typically respond to student emails within 24 hours, Monday through Friday.
Contact information:
Classroom number:
Section number(s):
Class days and time:

Catalog Description: MTH042 Quantitative Reasoning Corequisite (2-0-2)
This course provides corequisite support and supplemental instruction for students. Emphasis is placed on experiences that assist students in the acquisition of prerequisite knowledge and enhance the content presented in the accompanying MTH142 Quantitative Reasoning class. Upon completion, students should be able to solve problems, apply critical thinking, collaborate with peers, and communicate effectively. (FA, SP)

Prerequisite: Eligible placement score, grade of "C" or higher in MTH010.

Corequisite: Enrollment in MTH142.

Text(s): *There is no additional textbook required beyond that of the MTH142 course.*

Other Required Materials: scientific calculator (recommended TI-30XS Multiview)

Purpose of Course:
This course allows students the opportunity to receive "just in time" remediation while enrolled in MTH142 Quantitative Reasoning.

Course Objectives (CO):
Upon successful completion of this course, students will be able to:
1. Identify missing or weak prerequisite skills for the MTH142 course
2. Communicate math skill deficiencies and proficiencies with an instructor and classmates
3. Demonstrate note-taking skills related to the mathematics classroom
4. Operate a calculator proficiently and efficiently
5. Recognize the resources available to assist with prerequisite skills for the MTH142 course
6. Utilize resources to learn, reinforce, and apply prerequisite skills for the MTH142 course
7. Demonstrate study skills for MTH142 in-class assessments
8. Demonstrate time management skills to balance prerequisite and current skills for MTH142

9. Participate in group activities in such a way that promotes learning and camaraderie

The main course objective is to provide individualized, "just in time" remediation of the prerequisite skills needed to be successful in MTH142 Quantitative Reasoning.

Course Content:

- Simplify algebraic expressions
- Basic operations with fractions
- Rounding
- Convert amongst decimals, fractions, and percents
- Use order of operations
- Calculate basic percent problems
- Use exponents
- Solve one and two step equations
- Use slope
- Graph linear equations
- Use basic geometry
- Solve proportions

Statement to Connect Course with Institutional Student Level Outcomes:
In compliance with MACC's Institutional Student Level Outcomes, the student who successfully completes this course will be able to meet the following institutional learning outcomes:

- **Higher Order Thinking:** Students will demonstrate the ability to distinguish among opinions, facts, and inferences; to identify underlying or implicit assumptions; to make informed judgments; to solve problems by applying evaluative standards; and to reflect upon and refine those problem-solving skills. This outcome involves creative thinking, critical thinking, and quantitative literacy.
- **Managing Information:** Students will demonstrate the ability to discern when there is a need for information; and to identify, locate, evaluate, and effectively and responsibly use and share that information for the problem at hand.

Evaluation of Student Learning:
This course is a pass/fail course where 70% will be considered a passing grade.

Points will be accumulated by:
In-class Practice Problems: 90%
Participation/Attendance: 10%

In-class Practice Problems:

- At the start of each class session, students will complete instructor-selected problems from the MTH142 course content. The instructor may choose to have students complete these problems together or independently. Emphasis will be on prerequisite skills, problem-solving skills, and detailed explanations and discussions of the in-class problems.

Participation/Attendance:

- Students will be given 10 points per class period for the following criteria:
    - Attendance (2-point deduction for being late; 2-point deduction for leaving early)

- Coming prepared to class (2 points)
- Participating in class activities (2 points)
- Staying on task (2 points)

Grading Scale: This course is a pass/fail course where 70% will be considered as a passing grade. A passing grade is earned through participation/attendance in class and accurate completion of in-class practice problems.

The grading scale will be structured as follows:

A – 90-100%
B – 80-89%
C – 70-79%
D – 60-69%
F – 0-59%

How MTH042 and MTH142 are linked:

- Students must remain enrolled in both MTH042 and MTH142 throughout the semester.
- If you drop MTH142 Quantitative Reasoning, you will be dropped from MTH042 Quantitative Reasoning Corequisite.
- If you drop MTH042 Quantitative Reasoning Corequisite, you will be dropped from MTH142 Quantitative Reasoning.

- If you pass MTH142 Quantitative Reasoning and fail MTH042 Quantitative Reasoning Corequisite, then you earn your college math credit and do not need to repeat the MTH042 course.
- If you pass MTH042 Quantitative Reasoning Corequisite and fail MTH142 Quantitative Reasoning, then you will not need to repeat MTH042. You may retake MTH142 Quantitative Reasoning without the corequisite course, MTH042.

Make-up and late work: If you miss a class session, you are required to complete all in-class work for the class session you missed. This may be done outside of class time.

Schedule of Student Assignments/Activities:

- In-class practice problems at the start of each class session

Collegewide Policies:

All faculty and students need to be aware of collegewide policies and procedures. Statements on Academic Dishonesty, ADA, Attendance, Title IX, and other important collegewide policies can be accessed by clicking on the following: **Collegewide Policies in Student Resources**.